NAVIGATION USER'S MANUAL

BOSS®
AUDIO SYSTEMS

POWERED by

NDrive

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Welcome!

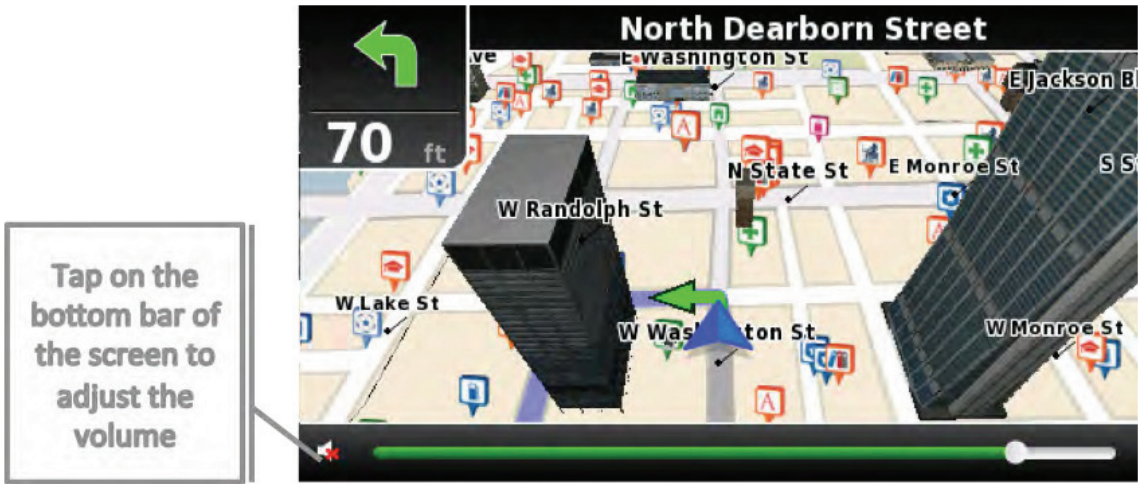
Dear Customer,

Thank you for selecting NDrive as your navigation software. This guide is created so that you can find quick and simple answers to your questions, considering both basic and advanced features, so that you can get more of this application. The new clean and elegant user interface of our latest version, will allow you to easily use the application, improving your user experience.

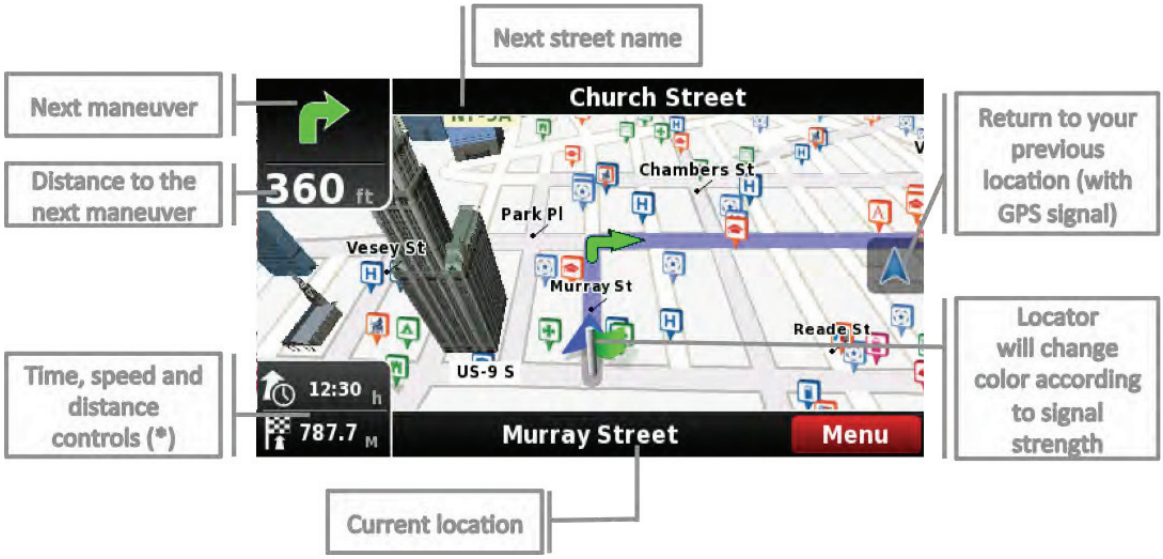
Main Map Screen

The main map screen can be presented in 3 different modes:

Map view


Tap on the bottom bar of the screen to adjust the volume
North Dearborn Street
70 ft
W Randolph St
N State St
E Monroe St
W Lake St
W Monroe St

Navigation

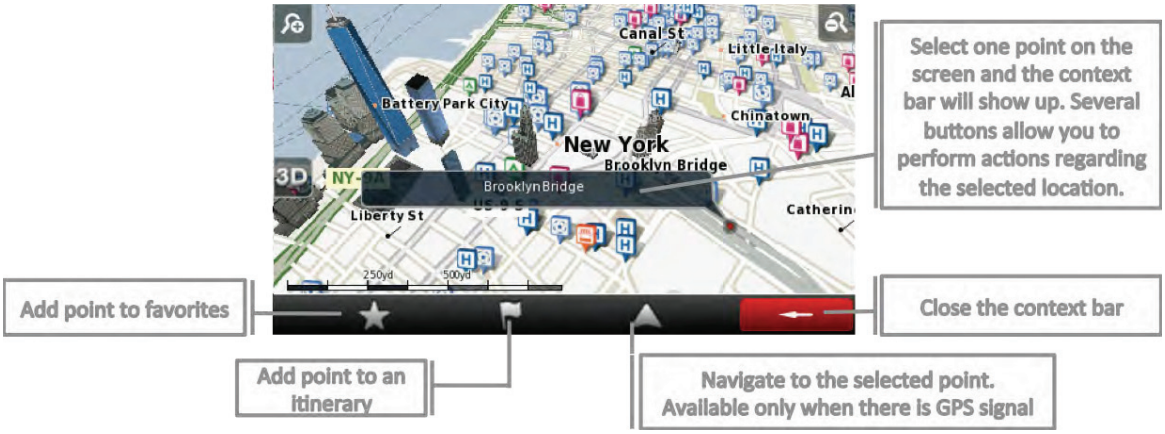


(*) – Time, speed and distance controls show different information, by toggling among the alternative modes:

- Estimated time left to destination
- Speed limit on the current street
- Current speed
- Estimated time of arrival
- Distance left to destination
- Current time

Context

If you click on any point on the map, the context bar shows up on the bottom and these four actions can be performed.


Canal St
Little Italy
Battery Park City
Chinatown
New York
Brooklyn Bridge
Brooklyn Bridge
Liberty St
3D
250yd
500yd
Select one point on the screen and the context bar will show up. Several buttons allow you to perform actions regarding the selected location.
Add point to favorites
Close the context bar
Add point to an itinerary
Navigate to the selected point. Available only when there is GPS signal

Basic Commands

Exploring menu screens

All menu screens show, on top, two buttons which allow for the following actions:

Go back to previous screen

Return to main map screen

Using keyboards

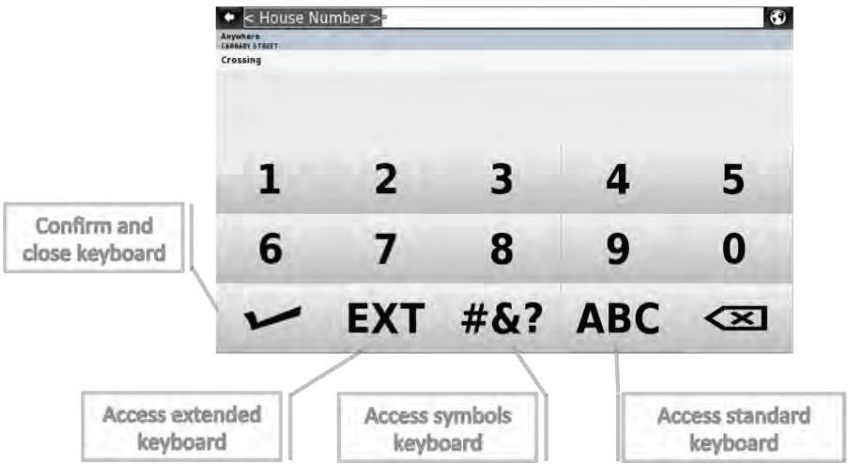
Whenever you want to perform a search, filter results from a list or input data, the keyboard will appear on screen. Different keyboard layouts can be selected on Settings. Here are some tips you should keep in mind:

- When searching for a street, you can simply write the initials, separated by a space, and results will show up. Example: enter "C P W" and "Central Park West" will show up on the results list.
- Start writing the first letters, and results will be automatically updated on the list below.

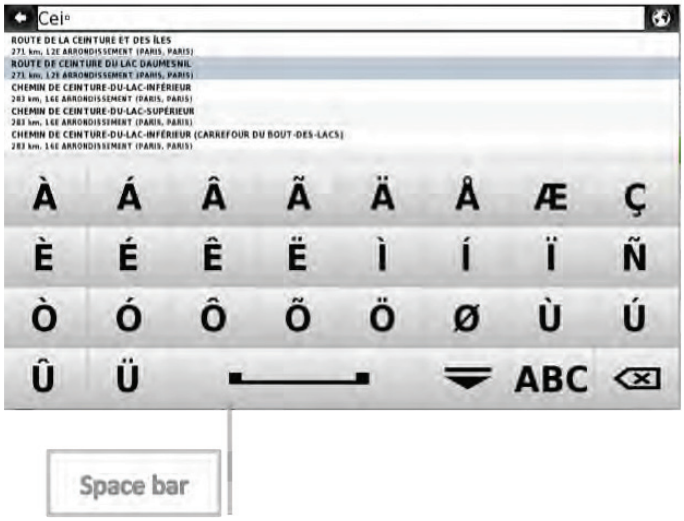
Standard keyboard

< Town >
New York
New York (Manhattan, New York, NY)
Chicago
Chicago (Cook, IL)
Q W E R T Y U I O P
A S D F G H J K L *
Z X C V B N M . - @
123
Space bar
Delete letters
Remove keyboard from the screen
Access numeric keyboard

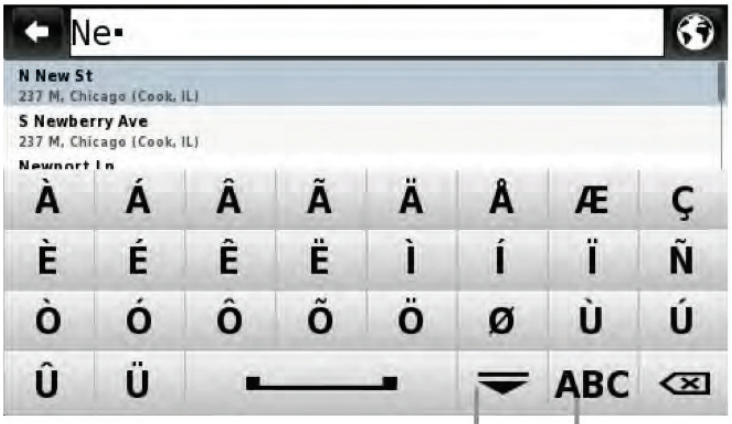
Numeric keyboard



Extended keyboard

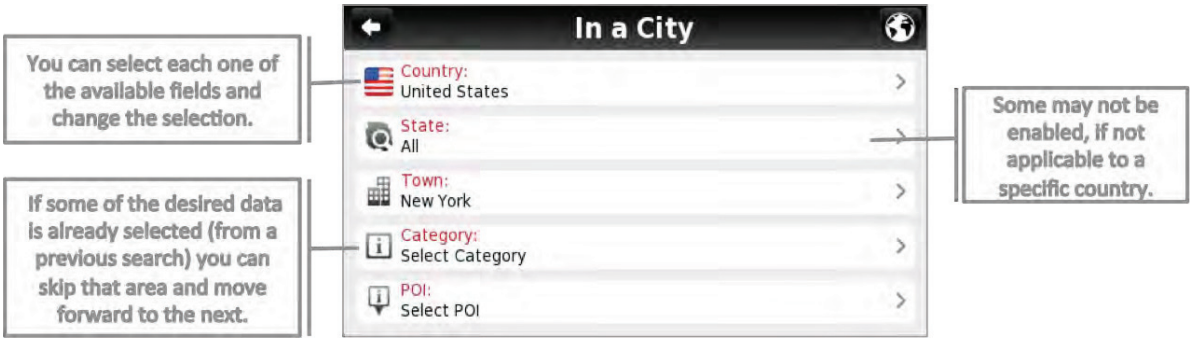

Cei
ROUTE DE LA CEINTURE ET DES ÎLES
ROUTE DE CEINTURE DU LAC DAUMESNIL
CHEMIN DE CEINTURE-DU-LAC-INFÉRIEUR
CHEMIN DE CEINTURE-DU-LAC-SUPÉRIEUR
CHEMIN DE CEINTURE-DU-LAC-INFÉRIEUR (CARREFOUR DU BOUT-DES-LACS)
À Á Â Ã Ä Å Æ Ç
È É Ê Ë Ì Í Ï Ñ
Ò Ó Ô Õ Ö Ø Ù Ú
Û Ü
ABC
Space bar

Extended symbols keyboard


Ne
N New St
237 M, Chicago (Cook, IL)
S Newberry Ave
237 M, Chicago (Cook, IL)
À Á Â Ã Ä Å Æ Ç
È É Ê Ë Ì Í Ï Ñ
Ò Ó Ô Õ Ö Ø Ù Ú
Û Ü
ABC
Remove keyboard from the screen
Access standard keyboard

Performing a search

When a search is being performed, this type of screen allows you to enter search details, to filter your results.


You can select each one of the available fields and change the selection.
If some of the desired data is already selected (from a previous search) you can skip that area and move forward to the next.
In a City
Country:
United States
State:
All
Town:
New York
Category:
Select Category
POI:
Select POI
Some may not be enabled, if not applicable to a specific country.

Go screen

After performing a search or selecting a POI on the map, the Go Screen will be shown. This screen allows you to perform several actions, based on the location you just selected:

How to Navigate...

Navigate to an address

From the main menu select **Go To** and then **Address** .

After inputting the address click Navigate

Input an address

Select Country, State (when available), City. Afterwards type in the Street name and house number.

Navigate to a Point of Interest (POI)

From the main menu select **Go To** and then **Places** .

Then select **Around Me** or **In a City** . You will see the Places grouped in categories. Select the desired category or specific attributes and use the keyboard to filter your search. After completing your selection, click Navigate. You may also select **All** and search for a location name within the entire database; note that this will take longer.

Alternatively, simply click on a POI, or any other point on the map, and then click on the Navigate button on the bottom bar. See Main Map Screen section.

Navigate to a Postcode

From the main menu select **Go To** and then **Places**. Select **Postcode** and after selecting the country, use the keyboard to filter your search. After completing your selection, click Navigate.

Use coordinates to navigate to a location

From the main menu select **Go To** and then **Places**. Then click **Coordinates**, use the keyboard to input the location's coordinates and click. After completing your selection, click Navigate.

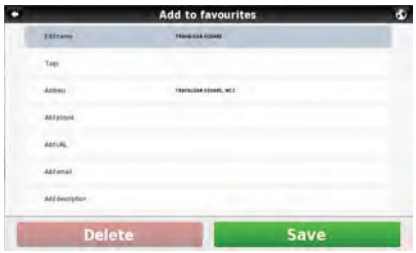
Navigate to a recent location

From the main menu select **Go To** and then **Recent Location**. After selecting the desired location from the list, click on Navigate

Save my favourite locations

From the main menu select **Go To** and then **Address**, **Places** or **Recent Location**. After completing your selection, click Save.

Alternatively, simply click on a POI or any other point on the map, and then click on the Add to Favourites button on the bottom bar.



Complete the fields you wish to detail, and then click Save to add to Favourites.

See Basic Interaction section for keyboard input options.

Navigate to my favorite locations

From the main menu select **Go To** and then **Favourites** . Use the scroll bar or the keyboard to filter your search. After selecting the desired location from the list, click Navigate.

You may type in either the name or the tag of the favourite you have previously defined. NDrive will filter your search according to both fields.

Navigate Home

From the main menu select **Go To** , **Home** and then Navigate.

Define my Home

From the main menu select **My NDrive** and then **Define Home** . Input an **Address** , select a **Place** , **Recent Location** , **Favourite** , or the current location, according to GPS signal or to your previous selection on the map - **Here** . After completing your selection, click on Save.

The first time you try to navigate home, if you haven't previously defined your home location, NDrive will ask you to set that location. It is possible to edit it at any time, following the steps described above.

Stop navigating in the current route

From the main menu, click **My Route** , and then **Stop Navigation** .

See an overview of my route

After defining a route and during navigation, you can see an overview of the whole route by clicking **My Route** on the main menu, and then **Show Route** .

See the list of all maneuvers included in my route

From the main menu, click **My Route** , and then **Roadbook** . Scroll down to see all the items on the list.

Delete a favourite location

From the main menu select **Go To** and then **Favourites** . Use the scroll bar or the keyboard to filter your search. After selecting the desired location from the list, click Edit and then Delete.

Delete recent locations

From the main menu select **Go To** and then **Recent Location**. Click Delete to clear all recent locations.

Use itineraries

From the main menu select **Go To** and then **Itineraries**. You can then create a new itinerary, or select an itinerary from the list, if you have already created or imported any.

- Create an itinerary

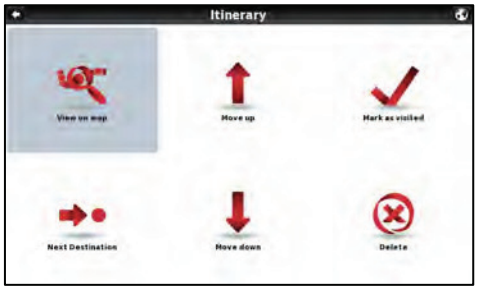
To create an itinerary, click **Add New Itinerary** Add new itinerary. Edit the name and the description by selecting them and using the keyboard. You can also add an icon, by clicking on the ICON button Icon my_itinerary and selecting one from the list. Click Save to proceed. Afterwards, you will have to define the waypoints to be included in your itinerary. Click **Add New Waypoint** Add new waypoint, selecting from **Address**, **Places**, **Recent Location**, **Favourites** or **Home**. After completing your selection, click Save and repeat the process for each new waypoint. When you have finished adding waypoints, click Save to finish creating the itinerary.

You can also add a waypoint by selecting any point on the map, and clicking the waypoint shortcut, on the context bar. Then you can either add it to an existing itinerary, or create a new one, where the selected waypoint will be included.

- Change an itinerary

After selecting the itinerary from the list, to edit the itinerary's name, description and icon, click **Edit/Rename** and proceed as described in "Create an itinerary".

To edit the itinerary's waypoints, click on **Show Waypoints**. You can then add a new waypoint as described in "Create an itinerary". You can also select each waypoint and perform several actions:



See waypoint's location on the map;

Mark waypoint as visited, so that when you are navigating the itinerary, you skip that location;

Move the waypoint up on the itinerary's list;

Move the waypoint down on the itinerary's list;

Mark waypoint as the next destination and all the previous ones as visited;

Delete waypoint from the itinerary.

- Navigate to an itinerary

After selecting an itinerary from the list, click Navigate. The route from your current location to the first waypoint on the itinerary will be calculated.

You can also see the whole itinerary on the map, by clicking **View On Map** .

The first waypoint is represented by a green flag and the last one by a checkered flag (black and white). The waypoints in between are marked with orange flags.

Manage alternative routes

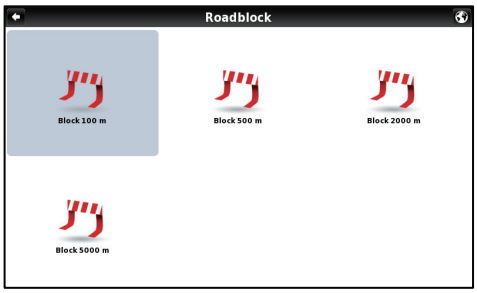
From the main menu select **My Route** and then **Alternatives** . If you click **Calculate Alternative** , an alternative route will be calculated, according to the defined routing options. If afterwards you prefer the first route, click **Calculate Original** .

Avoid going through specific streets or roads

From the main menu select **My Route** and then **Alternatives** . Click **Avoid Part Of Route** , select the segments you wish and then click **Avoid** . A new route will be calculated accordingly. If afterwards you prefer the first route, click **Calculate Original** .

Find an alternative when there is a roadblock ahead

From the main menu select **My Route** and then **Alternatives** .



Click **Roadblock** , and then select the most appropriate option to define how far it is from your current location

A new route will be calculated accordingly. If afterwards you wish to select the previous route, click **Calculate Original** .

See Basic Interaction section for keyboard input options.

Customizing Your NDrive

The speaker volume

From the main menu select **Settings** and then General. Use +/- to adjust the volume according to your preference. It's also possible to quickly adjust the volume from the Main Map Screen, simply by clicking on the lower bar placed near the Menu button at the bottom of the screen and sliding your finger across it.

The light

From the main menu select **Settings** and then General. If you select SYSTEM, NDrive will consider the light settings defined for your device. If you prefer to maintain the screen lighten at all times, select ALWAYS ON. To confirm, click on Save.

The language

From the main menu select **Settings** and then International; click on Language and then select from the available options. To confirm, click on Save.

The keyboard layout

From the main menu select **Settings** and then International. You may change the layout between ABC, QWERTY and AZERTY. To confirm your choice, select Save.

The speed unit

From the main menu select **Settings** and then International. You may choose to display the velocity in kilometre per hour (kph) or miles per hour (mph). To confirm your choice, select Save.

The map appearance

From the main menu select **Settings** and then Map Appearance. The following items are customizable:

- Lane Assistance

Displays information about the lanes on junctions and turns. In Intersections, it will display the signposts allowing you to pick the right lane. You may choose between simplified and detailed view.

- Map North Up

This option is only applicable to Pedestrian and Adventure modes. When enabled, the map will be displayed with North orientation and the locator will rotate according to your movements. When disabled, the locator will be pointing up and the map will rotate according to your movements. *[This option will be available in version 11.2]*

- Templates

The map colour scheme can be customized according to the time of day, choosing among the available templates. If you select "Enable auto toggle" the colour scheme will change automatically between day/night mode, according to a specific schedule defined by the system.

- Points of Interest

Select from the POIs categories list, the ones you wish to be displayed on the map.

The routing options

From the main menu select **Settings** and then Routing Options. You may select among the following routing options, which will influence the routing calculation:

- Fastest – calculates the fastest route, regardless of the distance. It is highly recommended that you select this option: the planned route will be not only the fastest, but also more economic and pleasant, since better and faster roads such as highways are given priority.
- Shortest – calculates the shortest route, regardless of the quality of the road. Note that this route may take more time and some of the roads may be narrow or steep.
- Tolls – select "avoid" if you don't want to use toll roads on your route or "yes" to allow NDrive to use tolls on route calculation. Please note that even if you've selected the option "avoid", NDrive will consider toll roads, if that is the only option.
- Pedestrian Mode – NDrive will calculate your route using the shortest path available for walking or riding a bicycle; routing calculation will not consider traffic signs and routing is limited to 20 km distances.
- Adventure Mode – allows you to navigate to a location or coordinates off the beaten track; select this mode for outdoor use or travelling by sea or air. In this mode, the distance to your destination is calculated in direct aerial line and a compass will be displayed to guide you towards your destination.

Safety options

From the main menu select **Settings** and then Safety Options to customize the following options:

Speed Limit Alarm: an alarm will ring when you exceed the speed limit configured by you (50 kph-160 kph); you may choose to turn off this option

Road Speed Alert: you can adjust the way the speed limit of each road is displayed, among visual (an icon will appear on screen), visual and sound (icon on screen and voice indication), or turned off.

Safety Camera Alert: you will receive an alert of the presence of safety cameras during your route – the system will display an icon with the maximum speed allowed and also a sound warning; you may choose to turn off this option

- System settings

From the main menu select **Settings** and then System to customize the following options:

Time format: select between 12h or 24h format

Theme: select between the default theme, which will display red buttons or rainbow which will display colourful buttons. *[This option will be available in V 11.2]*

Restore Settings: select this option to restore the system to default settings

- Coordinates Format

From the main menu select **Settings** and then GPS. The selected format will define the input method on navigation by coordinates; you can choose between the following formats:

DMS: degrees, minutes and seconds

DMM: degrees and minutes

DDD: degrees and decimal degrees

Import data to NDrive

First, you will have to connect the device to your computer using an USB cable, or use a memory card reader. Copy the kml files from your source to the correspondent NDrive folders: "favourites", "itineraries", and "speedcams".

From the main menu select **My NDrive** and then **Data Import/Export**. Then, according to what you wish to import, select **Import Safety Cameras**, **Import Itineraries**, or **Import Favourites**.

Export data from NDrive

From the main menu select **My NDrive** and then **Data Import/Export**. Then, according to what you wish to export, select **Export Itineraries** or **Export Favourites**. After you perform this action, a new .kml file will be created in the correspondent NDrive folder: "itineraries" or "favourites". You will have to connect the device to your computer using an USB cable, or use a memory card reader to manage the files.

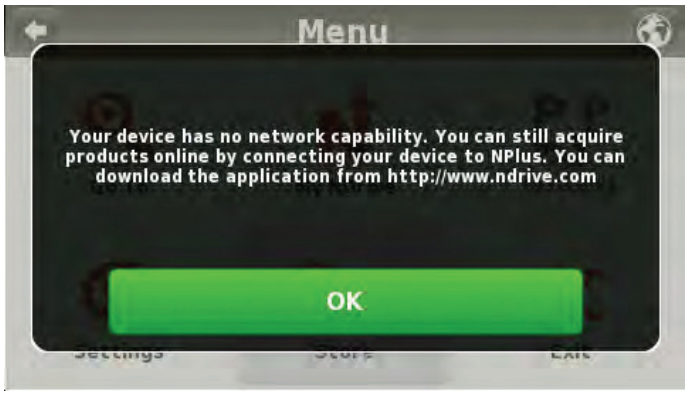
Know more about my software

From the main menu select **My NDrive** and then **Version** to consult information about your software version. **My Maps** will show you the maps installed on your device, such as version, provider, verify map consistency and on **GPS** you can visualize your current coordinates and number of satellites your device is connected to.

Getting More of your NDrive

How to get new maps, voices or other features

NDrive's store offers you additional free or purchasable features, such as voices or new maps, which will enhance your software and user experience. Since your device does not have network connectivity, when you select **Store** , the following message will be displayed.


Menu
Your device has no network capability. You can still acquire products online by connecting your device to NPlus. You can download the application from http://www.ndrive.com
OK

Visit our website and download the free **NPlus** application, to access all offers. This application gives you also the possibility to update your software, as well as to consult information about your device and products. In case you have any doubts, you have also access to online help.

What is…

Go To - This button allows you to enter a destination such as an address or a Point of Interest. You can then display it on the map, navigate there or set it as your current location.

Address - Select this button to search for a location by its address.

– Use this button to change the country where your destination is located. You can skip this step if the country is correct.

- Use this button to change the state where your destination is located. You can skip this step if the state is correct. This button is only enabled for countries that are divided into states, such as the USA.

– Type the name of your destination city here. If your city name already appears, you may skip this button and go directly to Street.

– Type your destination street here. You can also select "City Center" if you do not know the street name or wish to navigate to the center.

< House Number > – type here the house number. If you do not know the house number, you may select "Anywhere" to be taken to the nearest point in this street or Crossing.

Note: If the house number you typed does not appear, NDrive will offer you the nearest number available.

The GO screen – This screen displays the information about the destination you selected. It can contain an address, a place name or even additional information, if available.

Show – Displays the selected destination on the map. Click anywhere on the map to set your current location there, which will be presented by a red dot.

Save – Use this button to save this location in your favorites.

Navigate – Click on this button to start live turn-by-turn guidance to the destination you selected. If your software version does not include live guidance, this button will show the route to your selected location.

Places - Allows you to search or navigate to Points of Interest (POI) on the map or by using various online sources

Around Me - A POI located around your location, according to GPS signal, or a previously selected location.

In a City - A POI in a specific or remote location.

Coordinates - Using the special keyboard, you may search for coordinates using the Lat/Lon format.

Postcode - Allows you to search for a destination by typing in the Postcode (Zip) of the location; this function is only enabled only with maps that contain postcode data.

Recent Location - Here you can see a list of all your previously selected locations. Click on any of them to navigate or show it on the map.

Favourites - These are pre-defined locations that you have created or imported. See the "How to" section for further information.

Home - Pre-define a location you use more often, such as your home, work etc. On the first click, it will ask you to set that destination. You can edit/change it at any time from My NDrive menu.

Itineraries - This is a pre-defined set of destinations that you have created or imported. See the "How to" section for further information.

My Route - This button is enabled only when a destination has been selected and a route has been calculated. It will allow you to consult additional information about your route.

Show Route - Displays your route from the current position to your destination on the map.

Road Book - Displays a list of all the maneuvers from your current position to your destination. You may click on one of them to see it on the map.

Stop Navigation - Stops the current turn-by-turn & voice guidance.

Start Demo - Starts a demonstration route of the previously selected navigation.

Stop Demo - Stops the current demonstration route

Alternatives - This button gives you the option to calculate an alternative route; place a Roadblock (if for any reason a part of the route is blocked); avoid part of the route (due to traffic or other info) or re-calculate the original route if you made any changes.

My NDrive - Here you may change the settings and learn about your software.

Define Home - Define your Home location from an address, place of interest, recent location, favourite or your current location (Here). This allows you to quickly navigate there. You may edit or change this location at any time.

Version - Contains detailed information about the NDrive software version you own.

My Maps - Displays a list of the maps you have installed on your device. By clicking on them you have access to the following options: Show – shows the selected map; About – detailed information about the map version and its provider; Check – verifies map file consistency.

Startup Wizard - By selecting this option, the start-up wizard will be displayed the next time you initiate NDrive, displaying the Legal Info.

GPS - Displays a screen with detailed information about the coordinates of your current location; the number of satellites to which your device is connected; the speed you're travelling; the altitude at your location and a compass showing your orientation.

Data import/export - This button allows you to import or export files such as favourites or itineraries.

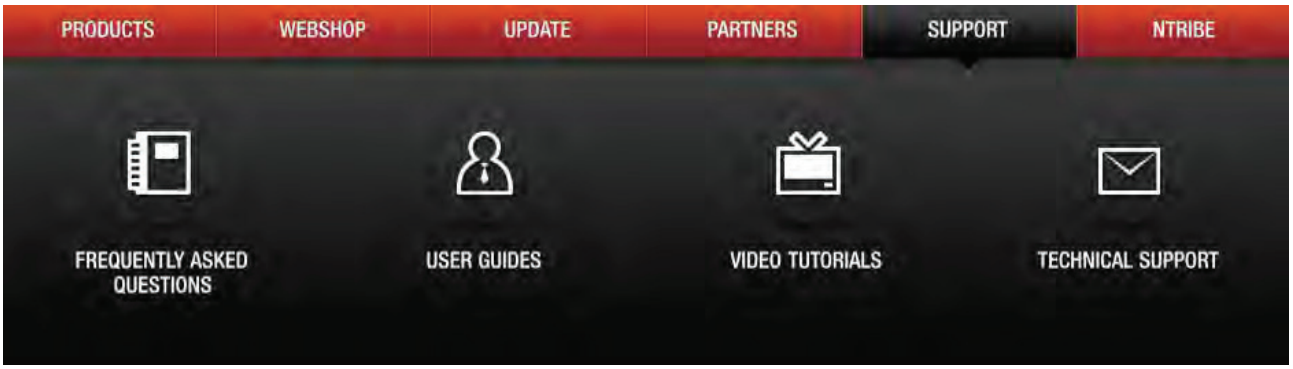
Settings - Customize the way NDrive is displayed, navigates, uses the GPS and others. For further details see the "How to" section.

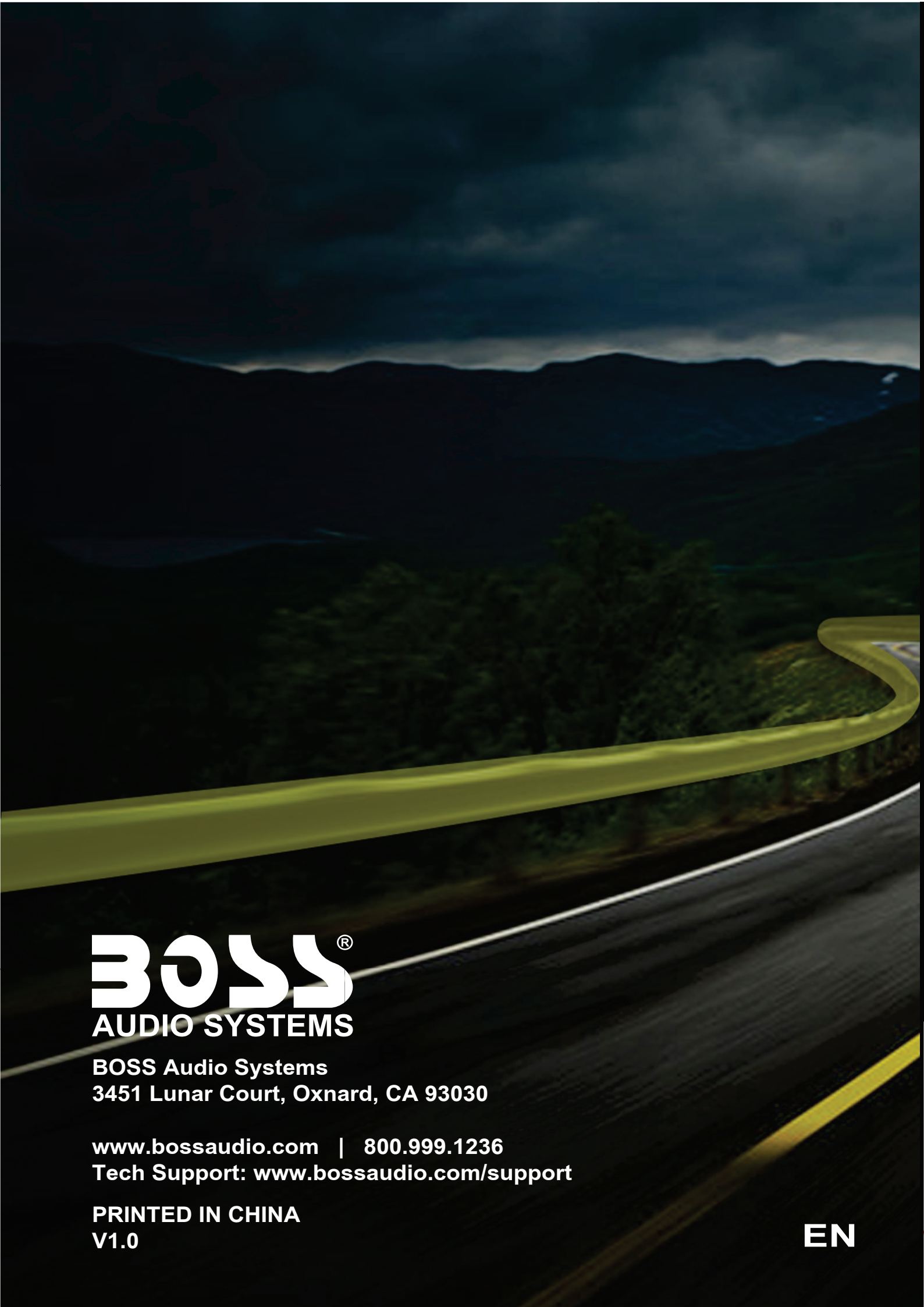
Store - Here you may download easily and securely additional content to your NDrive such as additional Worldwide Maps and Map Updates, Voices, Real Navigation city photos, Premium Weather and more.

Exit - Click here to exit NDrive Application.

Support

Visit our Support section at http://www.ndrive.com to learn more on how to use NDrive. Additional contents such as video tutorials give you a more intuitive view on how to take advantage of your application. If any questions should remain, consult our FAQs or alternatively contact our technical support.





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